

Serial Number: 09/553093

CRF Processing Date  
 Edited by: plh  
 Verified by: \_\_\_\_\_

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number input applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using \_\_\_\_\_
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field according to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Action. DO NOT send a copy of this form.

OIEP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/883,093

DATE: 11/16/2001  
TIME: 10:10:12

Input Set : N:\jumbos\R-126.raw

Output Set: N:\CRF3\11162001\I883093.raw

4 <110> APPLICANT: Guenther, Catherine  
5 Brennan, Thomas J.  
7 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING NUCLEAR  
8 HORMONE RECEPTOR GENE DISRUPTIONS  
11 <130> FILE REFERENCE: R-126  
13 <140> CURRENT APPLICATION NUMBER: US 09/883,093  
14 <141> CURRENT FILING DATE: 2001-06-14  
16 <150> PRIOR APPLICATION NUMBER: US 60/252,300  
17 <151> PRIOR FILING DATE: 2000-11-20  
19 <150> PRIOR APPLICATION NUMBER: US 60/223,464  
20 <151> PRIOR FILING DATE: 2000-08-07  
22 <150> PRIOR APPLICATION NUMBER: US 60/211,885  
23 <151> PRIOR FILING DATE: 2000-06-14  
25 <160> NUMBER OF SEQ ID NOS: 4  
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
29 <210> SEQ ID NO: 1  
30 <211> LENGTH: 1332  
31 <212> TYPE: DNA  
32 <213> ORGANISM: Mus musculus

ENTERED

34 <400> SEQUENCE: 1  
35 ccctcgacct cgagatccat tgtgctctaa agcagagtct gggctcctacc tacatatggc 60  
36 accgaggata cctagaggcc ccatgcaaga gaaggccctt gttttccagg cactgaggac 120  
37 cgcagtcctt aattcctggc agttcctgag atctcaagga aagcaggggc agcgaggagg 180  
38 cctggggaga ggaggcatcc tacaccaat cttgtggcct gctgcctaag ggaaacagga 240  
39 gacctgaca gctatgctaa cactagaaac catggccagt gaagaagaat atgggcccag 300  
40 gaaactgtgtg gtgtgtggag accqqqccac aggcctatcat tcccacgccc tgacttgtga 360  
41 gggtgcaag ggcttcttca gacgaacagt cagcaaaaacc attggtccca tctgtccgtt 420  
42 tgctggaagg tgtgagggtca gcaaggccca gagaagccac tgtccagcct gcagggttga 480  
43 gaagtgtcta aatgttggca tgaggaaaga catgatactg tcagcagaag ccctggcatt 540  
44 gcggcgagcc agacaggcac agcggcgggc agagaaagca tctttgcaac tgaatcagca 600  
45 gcagaaagaa ctgggtccaga tctcctggg ggcccacact cgccatgttg gccattgtt 660  
46 tgaccagttt gtgcagttca agcctccagc ctatctgttc atgcatcacc ggcctttcca 720  
47 gcctcggggc cccgtgttgc ctctgtctac acactttgca gatataca cgtttatggt 780  
48 gcaacagatc atcaagttca ccaaggatct gccgtcttcc cggtccttaa ccatggagga 840  
49 ccagatctcc cttctcaagg gaggcggtgt ggaaatattg catatctcac tcaacactac 900  
50 gttctgtctt caaacagaga atttcttctg tgggcctctt tgcatacaaga tggaggacgc 960  
51 agtccatgca gggttccagt acgagttttt ggagtcgac gctgccacgg cctcttctc 1020  
52 gaaaggactg catctccagg agcctgagta tgtgtcatg gctgccacgg cctcttctc 1080  
53 cctgggtttc tgtatgcaaa gctgatgggc ctctgtgctg acctccggag tataaacaat 1140  
54 gcatactcct atgaacttca gcgcttggag gaactgtctg ctatgacgcc gctgctcggg 1200  
55 gagatttgca gttgaggccc aggcttgcat cctttcccca gaccccccagg gatacactgg 1260  
56 cctggaaagg gtacagcgtt ggaccccaca cagcagaagg agcttggggg tggcaatgaa 1320  
57 atgctgaaca gt 1332  
59 <210> SEQ ID NO: 2  
60 <211> LENGTH: 286  
61 <212> TYPE: PRT  
62 <213> ORGANISM: Mus musculus

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Input Set : N:\jumbos\R-126.raw

Output Set: N:\CRF3\11162001\I883093.raw

64 &lt;400&gt; SEQUENCE: 2

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65 Met Thr Ala Met Leu Thr Leu Glu Thr Met Ala Ser Glu Glu Glu Tyr
66 1 5 10 15
67 Gly Pro Arg Asn Cys Val Val Cys Gly Asp Arg Ala Thr Gly Tyr His
68 20 25 30
69 Phe His Ala Leu Thr Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Thr
70 35 40 45
71 Val Ser Lys Thr Ile Gly Pro Ile Cys Pro Phe Ala Gly Arg Cys Glu
72 50 55 60
73 Val Ser Lys Ala Gln Arg Arg His Cys Pro Ala Cys Arg Leu Gln Lys
74 65 70 75 80
75 Cys Leu Asn Val Gly Met Arg Lys Asp Met Ile Leu Ser Ala Glu Ala
76 85 90 95
77 Leu Ala Leu Arg Arg Ala Arg Gln Ala Gln Arg Arg Ala Glu Lys Ala
78 100 105 110
79 Ser Leu Gln Leu Asn Gln Gln Gln Lys Glu Leu Val Gln Ile Leu Leu
80 115 120 125
81 Gly Ala His Thr Arg His Val Gly Pro Leu Phe Asp Gln Phe Val Gln
82 130 135 140
83 Phe Lys Pro Pro Ala Tyr Leu Phe Met His His Arg Pro Phe Gln Pro
84 145 150 155 160
85 Arg Gly Pro Val Leu Pro Leu Leu Thr His Phe Ala Asp Ile Asn Thr
86 165 170 175
87 Phe Met Val Gln Ile Ile Lys Phe Thr Lys Asp Leu Pro Leu Phe
88 180 185 190
89 Arg Ser Leu Thr Met Glu Asp Gln Ile Ser Leu Leu Lys Gly Ala Ala
90 195 200 205
91 Val Glu Ile Leu His Ile Ser Leu Asn Thr Thr Phe Cys Leu Gln Thr
92 210 215 220
93 Glu Asn Phe Phe Cys Gly Pro Leu Cys Tyr Lys Met Glu Asp Ala Val
94 225 230 235 240
95 His Ala Gly Phe Gln Tyr Glu Phe Leu Glu Ser Ile Leu His Phe His
96 245 250 255
97 Lys Asn Leu Lys Gly Leu His Leu Gln Glu Pro Glu Tyr Val Leu Met
98 260 265 270
99 Ala Ala Thr Ala Leu Phe Ser Pro Gly Phe Cys Met Gln Ser
100 275 280 285

```

103 &lt;210&gt; SEQ ID NO: 3

104 &lt;211&gt; LENGTH: 200

105 &lt;212&gt; TYPE: DNA

106 &lt;213&gt; ORGANISM: Artificial Sequence

108 &lt;220&gt; FEATURE:

109 &lt;223&gt; OTHER INFORMATION: Targeting vector

111 &lt;400&gt; SEQUENCE: 3

```

112 gttggaggcc agagacaaaa agcaacattt ttgcttttaa tgctctcagt gctggggagc 60
113 ccggtgtcag gctgggcagt cttgggaaga gattctgtag aggagagaga agagagtcct 120
114 atggcccagt gctgattctc aactctccc acattcagga gaccatgaca gctatgctaa 180
115 catagaaacc atggccagt 200
117 <210> SEQ ID NO: 4

```

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Output Set: N:\CRF3\11162001\I883093.raw

```
118 <211> LENGTH: 200
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Targeting vector
125 <400> SEQUENCE: 4
126 ggtcccatct gtccgtttgc tggaaggtgt gaggtcagca aggccagag acgccactgt 60
127 ccagcctgca ggttgcagaa gtgtctaaat gttggcatga ggaaagacag tgagttggtc 120
128 cctaccgttc caggagtcca ttggtgcttc tctgcttttg ttcaggttcc cacagcaggc 180
129 agagtgagct gttggaaacc                                200
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/883,093

DATE: 11/16/2001

TIME: 10:10:13

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**STATISTICS SUMMARY**

PATENT APPLICATION: US/09/883,093

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TIME: 10:10:13

Input Set : N:\jumbos\R-126.raw

Output Set: N:\CRF3\11162001\I883093.raw

Application Serial Number: US/09/883,093

Alpha or Numeric: Numeric

Application Class:

Application File Date: 06-14-2001

Art Unit: OIPE

Software Application: FastSeq

Total Number of Sequences: 4

Total Nucleotides: 1732

Total Amino Acids: 286

Number of Errors: 0

Number of Warnings: 0

Number of Corrections: 0

**MESSAGE SUMMARY**